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JP58098421A2: PRODUCTION OF POLYURETHANE ELASTIC YARN

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Purpose: A reaction product from a polyisocyanate and a blocking agent is added to a polyurethane elastomer and they are made into filaments and the resultant filaments are heat treated at a specific temperature to produce the titled elastic yarn with high recovery from deformation at high temperatures.

Constitution: A melted thermoplastic polyurethane elastomer, preferably made from a polytetramethylene glycol of 500W6,000 molecular weight, p,p'-diphenyl- methanediisocyanate and 1,4-butanediol as a chain extender, is combied with a reaction product between a polyisocyanate of 400 or more molecular weight, preferably p,p'-diphenylmethane diisocyanate adduct to polytetramethylene glycol on both terminals and a blocking agent as a compound with active hydrogens such as phenol, preferably by 5W20wt%. The resultnat mixture is spun into filaments and they are heat treated at a temperature over 80°C, preferably high or than 100°C to give the objective elastic yarn.

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